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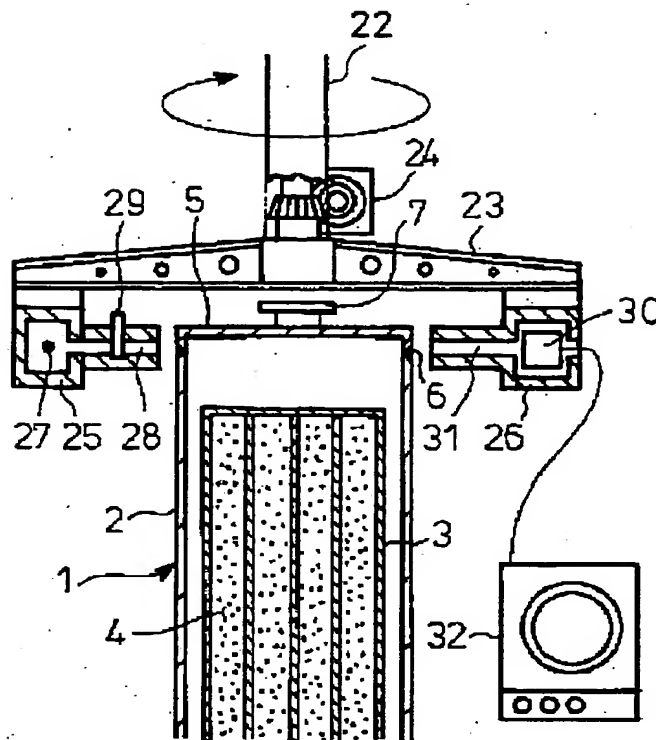
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TITLE : WELDING INSPECTING DEVICE FOR
SPENT NUCLEAR FUEL SEALED
VESSEL



ABSTRACT : PROBLEM TO BE SOLVED: To surely inspect a weld part by rotating first and second radiation shielding casings along the circumference of the weld part, and detecting the radiation from a radiation source transmitted by the weld part by a detector.

SOLUTION: The radiation from a radiation source 27 is passed the pores 28 of a first radiation shielding casing 25, and transmitted by a weld part 6 in fine beam state, and it reaches a detector through the pores 31 of a radiation shielding casing 26. A rotating support beam 23 is also horizontally rotated around a suspended beam 22. The shielding casings 25, 26 are rotated around the weld part 6 while keeping the opposed state on the diameter of the circular weld part 6. The radiation reaching the detector 30 is converted into a received image signal, transmitted to an image processing means 32, and the state of the weld part 6 which transmits the beam-like radiation is image-processed by use of the principle of CT, displayed on a display as two-dimensional plane image, and recorded in a recorder. If the weld part 6 which transmits the beam-like radiation has a defect such as cavity, it is displayed as a defective part, and recorded.

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